

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Lynette Robyn Griffiths

Appl. No. (U.S. National Phase of
PCT/GB99/01450; U.S.
Appl. No. (to be assigned))

Int'l Filing Date: May 7, 1999

For: **Polymorphism in a Nitric Oxide
Synthase Gene**

Art Unit: (To be assigned)

Examiner: (To be assigned)

Atty. Docket: 1581.0720000/RWE/TBB

Information Disclosure Statement

Commissioner for Patents
Box PCT
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

The document, AO1, was cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).


This Information Disclosure Statement is being filed within three months of the U.S. filing date. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Robert W. Esmond
Attorney for Applicant
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Date: Nov. 13, 2000

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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Lynette Robyn GriffithsINTERNATIONAL FILING DATE
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To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	5,405,872	04/11/1995	McDermid <i>et al.</i>	514	605	03/22/1993
	AB1	5,409,936	04/25/1995	Honma <i>et al.</i>	514	303	09/03/1992
	AC1	5,496,569	03/05/1996	Morris, Jr. <i>et al.</i>	424	717	04/02/1993
	AD1	5,510,390	04/23/1996	Bergeron, Jr.	514	673	01/28/1994
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 97/33989	09/18/1997	WIPO			Yes No
	AM1	WO 97/38130	10/16/1997	WIPO			Yes No
	AN1	WO 98/02170	01/22/1998	WIPO			Yes No
	AO1	WO 98/08516	05/03/1998	WIPO			Yes X No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Bellamy, R. and Hill, A.V.S., "A bi-allelic tetranucleotide repeat in the promoter of the human inducible nitric oxide synthase gene," <i>Clin. Genet.</i> 52:192-193, Munksgaard (1997)
	AS	1	Bloch, K.D. <i>et al.</i> , "Three Members of the Nitric Oxide Synthase II Gene Family (NOS2A, NOS2B, and NOS2C) Colocalize to Human Chromosome 17," <i>Genomics</i> 27:526-530, Academic Press, Inc. (1995)
	AT	1	Chartrain, N.A. <i>et al.</i> , "Molecular Cloning, Structure, and Chromosomal Localization of the Human Inducible Nitric Oxide Synthase Gene," <i>J. Biol. Chem.</i> 269:6765-6772, The American Society for Biochemistry and Molecular Biology, Inc. (1994)

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Deng, A.Y. and Rapp, J.P., "Locus for the Inducible, but Not a Constitutive, Nitric Oxide Synthase Cosegregates with Blood Pressure in the Dahl Salt-sensitive Rat," <i>J. Clin. Invest.</i> 95:2170-2177, The American Society for Clinical Investigation, Inc. (1995)
	AS	2	Hare, J.M. and Colucci, W.S., "Role of Nitric Oxide in the Regulation of Myocardial Function," <i>Prog. Cardiovasc. Dis.</i> 38:155-166, W.B. Saunders Co. (1995)
	AT	2	Hilbert, P. et al., "Chromosomal mapping of two genetic loci associated with blood-pressure regulation in hereditary hypertensive rats," <i>Nature</i> 353:521-529, Macmillan Publisher Ltd. (1991)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	3	Julier, C. <i>et al.</i> , "Genetic susceptibility for human familial essential hypertension in a region of homology with blood pressure linkage on rat chromosome 10," <i>Hum. Mol. Genet.</i> 6:2077-2086, Oxford University Press (1997)
	AS	3	Lacolley, P. <i>et al.</i> , "Nitric oxide synthase gene polymorphisms, blood pressure and aortic stiffness in normotensive and hypertensive subjects," <i>J. Hypertens.</i> 16:31-35, Rapid Science Ltd. (1998)
	AT	3	Singh, A. <i>et al.</i> , "Inducible Nitric Oxide Synthase in Vascular Smooth Muscle Cells From Prehypertensive Spontaneously Hypertensive Rats," <i>Am. J. Hypertens.</i> 9:867-877, Elsevier Science, Inc. (1996)

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	AR	<u>4</u>	Stepanov, V. <i>et al.</i> , "Endothelial nitric oxide synthase gene polymorphism in essential hypertension with or without left ventricular hypertrophy," <i>Eur. J. Human Genetics</i> 6(S1):178, Macmillian Publishers Ltd. (1998)
	AS	<u>4</u>	Takahashi, Y. <i>et al.</i> , "Association analysis of TG repeat polymorphism of the neuronal nitric oxide synthase gene with essential hypertension," <i>Clin. Genet.</i> 52:83-85, Munksgaard (1997)
	AT	<u>4</u>	Tambs, K. <i>et al.</i> , "Genetic and Environmental Effects on Blood Pressure in a Norwegian Sample," <i>Genet. Epidemiol.</i> 9:11-26, Wiley-Liss, Inc. (1992)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	5	Tunny, T.J. <i>et al.</i> , "Association Study of the 5' Flanking Regions of Endothelial-Nitric Oxide Synthase and Endothelin-1 Genes in Familial Primary Open-Angle Glaucoma," <i>Clin. & Exper. Pharmacol. Physiol.</i> 25:26-29, Blackwell Science (1998)
	AS	5	Uwabo, J. <i>et al.</i> , "Association of a Variable Number of Tandem Repeats in the Endothelial Constitutive Nitric Oxide Synthase Gene With Essential Hypertension in Japanese," <i>Am. J. Hypertens.</i> 11:125-128, Elsevier Science Ltd. (1998)
	AT	5	Xu, W. <i>et al.</i> , "Evolution of a homopurine-homopyrimidine pentanucleotide repeat sequence upstream of the human inducible nitric oxide synthase gene," <i>Gene</i> 204:165-170, Elsevier Science B.V. (1997)

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	AO						Yes No
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	AR	6	International Search Report of International Application No. PCT/GB99/01450.
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